## IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with <u>underlining</u> and deleted text with <u>strikethrough</u>. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please cancel in this application original claims 4-36 and 40 of the prior application and AMEND claims 1-3, 37-39 and 41-46 in accordance with the following:

- 1. (currently amended) An image processing apparatus, comprising:
- <u>a</u> first image processing <del>means for performing unit to perform</del> a first image process;
- <u>a</u> second image processing <del>means for performing <u>unit to perform</u> a second image process; and</del>
- a control means for selecting-unit to select one of said first image process and said second image process based on a number of colors of a color image to be processed, where said first image processing unit performs the first image process if the number of colors in the color image is large, and said second image processing unit performs the second image process if the number of colors in the color image is small.
  - 2. (currently amended) An image processing apparatus, comprising:
- <u>a</u> color number determination <del>means for determining unit to determine</del> a number of colors of a color image;
  - a first labeling means for labeling in unit using a first labeling method;
  - a second labeling means for labeling in unit using a second labeling method; and
- <u>a</u> control <u>means for instructing unit to instruct one of said first erand second labeling <u>means units</u> to perform a labeling process based on the number of colors of the color image, where said first labeling unit performs a labeling process using the first labeling method if the number of colors in the color image is large and said second labeling unit performs a labeling process using the second labeling method if the number of colors in the color image is small.</u>

3. (currently amended) The apparatus according to claim 2,

wherein: said first labeling means-unit performs a-the labeling process by

clustering color palettes for a color image other than a full-color image ; and

wherein said second labeling means-unit performs a-the labeling process on the full-color image by an adjacency expanding method.

Claims 4-36 (cancelled)

37. (currently amended) An image processing apparatus, comprising:

<u>a</u>scanning means for scanning unit to scan an image in a predetermined direction;

<u>a</u> first counting means for counting unit to count a number of picture elements changing from a label other than a first label into the first label;

<u>a</u> second counting <u>means for counting unit to count</u> a number of picture elements changing from the first label into a <u>another</u> label <del>other than the first label</del> after <u>at least</u> two <del>or more</del> continuous picture elements labelled with the first label appear in the scanning direction; and

<u>a</u> third counting <u>means for counting unit to count</u> a number of picture elements assigned the first label whose adjacent picture elements in the scanning direction are also assigned the first label, and at least one of whose adjacent picture elements in a direction <u>vertical perpendicular</u> to the scanning direction is assigned a <u>different</u> label <u>ether</u>-than the first label.

38. (currently amended) An image processing apparatus, comprising:

<u>a</u> unicolor area extraction means for extracting unit to extract a unicolor area from an input image by comparing a predetermined first threshold with color information about the input image;

<u>a</u> threshold computation means for computing unit to compute a second threshold according to by using a representative value obtained from the color information about the unicolor area; and

<u>a</u> unicolor area re-extraction <del>means for re-extracting unit to re-extract</del> a unicolor area from the input image by comparing the second threshold with the color information about the input image.

39. (currently amended) A method of extracting a pattern, comprising:

enlarging for setting a threshold for use in extracting a of a color difference in a

first unicolor range for a first color having a low resolution to naked eyes; and

reducing a threshold of a color difference in a second unicolor range for a second

color having high resolution to naked eyes for each unicolor area extracted from a an input color image in consideration of color identification characteristics of a person.

40. (cancelled)

area;

41. (currently amended) A method of setting a labeling threshold, comprising the steps of:

extracting a part of a unicolor pattern from an input image;
setting a threshold for determining a unicolor range according to with standard
deviation obtained from color information variance about the unicolor pattern extracted from the input image; and

extracting a remaining part of the unicolor pattern based on the threshold.

42. (currently amended) A method of setting a labeling threshold, comprising the steps of: computing read resolution of

dividing an input image into a matrix of rectangular picture areas;

obtaining a color image for variance of the picture elements in each rectangular

extracting a rectangular area of a level color element with the color variance; and setting

obtaining a labeling threshold of the color image based on the read resolution for each-use in the labeling process by using the standard deviation of the picture elements in the rectangular area of the level color-element.

43. (currently amended) A method of obtaining an outline length, comprising-the steps of:

scanning an image <u>labeled in advance</u> in a predetermined direction; and computing an outline length of a pattern in the image based on a frequency at which a label value changes in the <u>a</u>scanning operation.

44. (currently amended) A computer-readable storage medium having a data structure in which storing at least one program embodying a method comprising:

obtaining a maximum value of a color difference between adjacent picture elements corresponding to a luminance value of a color when an image is read-is entered; and entering the maximum value of the color difference for each read resolution into a predetermined data structure.

45. (currently amended) A computer-readable storage medium storing a program used to perform a labeling process in different labeling methods based on a number of colors in a color image, comprising:

clustering color palettes for color images other than a full-color image; and processing full-color images by an adjacency expanding method.

46. (currently amended) A computer-readable storage medium storing a program used to control a processor to perform the steps of a method comprising:

obtaining read information about an input image <u>by extracting a local area from</u>
the input image and extracting color difference information about the input image from the local <u>area;</u>

setting a labeling threshold of the input image according to the read information about the input image <u>by setting a labeling threshold for the input image according to the</u> color difference information;

labeling the input image using the threshold;

grouping a label pattern obtained by the labeling;

obtaining image information about a group according to image information about a pattern in a same group; and

extracting a pattern according to image information about the group